

Title (en)  
METHOD FOR SCREENING PEPTIDES FOR USE IN IMMUNOTHERAPY

Title (de)  
VERFAHREN ZUM AUFFINDEN VON PEPTIDEN ZUR VERWENDUNG IN DER IMMUNTHERAPIE

Title (fr)  
PROCEDE DE CRIBLAGE DE PEPTIDES UTILISABLES EN IMMUNOTHERAPIE

Publication  
**EP 1309860 B1 20071114 (FR)**

Application  
**EP 01956629 A 20010720**

Priority  
• FR 0102387 W 20010720  
• FR 0009591 A 20000721

Abstract (en)  
[origin: WO0208716A2] The invention concerns a method for identifying sub-dominant/cryptic epitopes exhibited by a class I HLA molecule, said method comprising at least the following steps: a) selecting, from the sequence of a protein with respect to which it is desired to induce a cytotoxic T lymphocyte response, at least a peptide sequence of 8 to 11 amino acids capable of constituting an epitope of said protein exhibited by a class I HLA molecule, and corresponding to a peptide with low affinity for said class I HLA molecule and non-immunogenic; b) preparing, for each selected sequence, a variant peptide derived from said sequence, by substituting the N-terminal amino acid with a tyrosine residue; c) determining the immunogenicity of each variant peptide obtained at step b) by selecting, among the latter, each immunogenic peptide, generating a CTL response specific to the target cells expressing the protein wherefrom it is derived and identifying the peptide sequence wherefrom said immunogenic peptide is derived. The invention is applicable to screening of peptides for use in immunotherapy.

IPC 8 full level  
**G01N 33/50** (2006.01); **A61K 39/00** (2006.01); **A61P 31/12** (2006.01); **A61P 35/00** (2006.01); **C07K 7/06** (2006.01); **C07K 14/16** (2006.01); **C07K 14/71** (2006.01); **C12N 9/12** (2006.01); **G01N 33/569** (2006.01)

CPC (source: EP US)  
**A61P 31/12** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **A61P 37/04** (2017.12 - EP); **C07K 14/005** (2013.01 - EP US); **C07K 14/71** (2013.01 - EP US); **C12N 9/1241** (2013.01 - EP US); **G01N 33/56977** (2013.01 - EP US); **C12N 2740/16222** (2013.01 - EP US)

Citation (examination)  
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Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0208716 A2 20020131**; **WO 0208716 A3 20030227**; AT E378590 T1 20071115; AU 7855501 A 20020205; CA 2416761 A1 20020131; CA 2416761 C 20130423; DE 60131413 D1 20071227; DE 60131413 T2 20080904; DK 1309860 T3 20080317; EP 1309860 A2 20030514; EP 1309860 B1 20071114; ES 2296778 T3 20080501; FR 2812087 A1 20020125; FR 2812087 B1 20070511; PT 1309860 E 20080225; US 2004072240 A1 20040415; US 2009269363 A1 20091029; US 7425606 B2 20080916; US 7976843 B2 20110712

DOCDB simple family (application)  
**FR 0102387 W 20010720**; AT 01956629 T 20010720; AU 7855501 A 20010720; CA 2416761 A 20010720; DE 60131413 T 20010720; DK 01956629 T 20010720; EP 01956629 A 20010720; ES 01956629 T 20010720; FR 0009591 A 20000721; PT 01956629 T 20010720; US 18685608 A 20080806; US 33343003 A 20031002